

ABSTRACT OF THE DISCLOSURE

This invention relates to an oxide superconducting wire comprising (1) oxide superconducting filaments, (2) a high-density ceramic layer uniformly surrounding each of the filaments, and (3) a silver sheath that directly covers the ceramic layer. The ceramic layer becomes non-superconducting when the filaments are cooled to an operating temperature of oxide superconductors. The oxide superconductors can be isolated by the ceramic that acts as a highly resistive material or an insulator. A high normal resistance is achieved, and thereby AC loss is reduced remarkably.

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